

Serial No.: 09/709,043
Filed: November 10, 2000
RESPONSE TO RESTRICTION REQUIREMENT

APPENDIX: Clean Copy of Claims as Amended

1. A method for inducing an immune response against transformed, infected or diseased tissue comprising
contacting the blood of a patient in need thereof with an effective amount of a molecule binding to soluble cytokine receptor molecules, wherein the cytokine is selected from the group consisting of GM-CSF, erythropoietin, thrombopoietin, G-CSF, M-CSF and SCF, wherein binding of the molecule prevents the soluble cytokine receptor from binding to the cytokine, until the transformed, infected, or diseased tissue is reduced in amount.
2. The method of claim 1 wherein the tissue is a solid tumor.
3. The method of claim 1 wherein the disease is a viral or parasitic disease causing immunosuppression.
4. The method of claim 1 wherein the molecule is an antibody to the soluble cytokine receptor.
5. The method of claim 1 further comprising treating the tissue with an agent selected from the group consisting of anti-angiogenic compounds, procoagulant compounds, cytokines, chemotherapeutic agents, and radiation.
6. The method of claim 1 further comprising selectively removing soluble cytokine receptor molecules.
7. The method of claim 1 wherein the soluble cytokine receptor molecules are selected from the group consisting of soluble tissue necrosis factor receptor-1 ("sTNFR-1") and soluble tissue necrosis factor receptor-2 ("sTNFR-2").
8. The method of claim 7 wherein the cytokine receptor molecules are removed by binding to the cytokine or to an antibody or antibody fragment immunoreactive with the cytokine receptor molecules.
9. The method of claim 8 wherein the cytokine or antibody or antibody fragments are immobilized in a filter or column through which the patient's blood or plasma is circulated prior to being returned to the patient.
10. The method of claim 4 wherein the antibody is humanized.

(amended) The method of claim 1 comprising

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contacting the blood or components thereof with molecules binding to soluble cytokine receptor molecules, wherein the cytokine is selected from the group consisting of GM-CSF, erythropoietin, thrombopoietin, G-CSF, M-CSF and SCF, wherein binding of the molecule prevents the soluble cytokine receptor from binding to the cytokine, in an amount effective to reduce the amount of transformed, infected, or diseased tissue, wherein the molecules are in a pharmaceutically acceptable, endotoxin free carrier or immobilized in a sterile endotoxin free extracorporeal device.

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